

## ABSTRACT

A magnetic resonance imaging system performing various types of imaging that involves movement of a patient's couch. The system has a patient's couch having a tabletop movable in a predetermined direction passing through a static magnetic field as well as reception multiple RF coils 7R consisting of for example a plurality of coil groups. The tabletop is automatically moved in its longitudinal direction in accordance with a length of each coil group in the predetermined direction. At each moved position, scanning is performed on a given pulse sequence. An echo signal is received through the multiple RF coils, then switched over by an input switchover unit to be sent to a receiving-system circuit. The echo signal is subjected to given processing in this circuit so that it is converted to echo data. The echo data are produced into an MR image by a host computer.

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